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NPIC/TSSG/DED-1259-68 2 July 1968

	MEMORANDUM FOR THE RECORD	
25X1	SUBJECT: Monitor Trip	
25X1	1. visited on 24 and 25 June 1968 to monitor the progress on the High Precision Stereo Comparator Program.	25X1
	2. On the morning of 24 June 1968, the following personnel visited for a general briefing:	25X1 25X1
25X1		23/(1
25X1	gave an hour briefing accompanied by slides on the design, development and capabilities of the instrument. The group next viewed the mockup of the instrument and viewed the clean room area that is under construction to house the instrument during the fabrication and testing phase. The group also viewed a breadboard of the granite slab and stages of one side of the comparator system. The group was also able to inspect the mechanical layout for the laser interferometer system and the positioning for the air bearing lift off and guidance system. The last hour of the visit was taken up by a progress report on the fabrication phase of the program and a question and answer period.	
	4. On the afternoon of 24 June 1968, briefed on the progress of this 92-week program as completed on the 11th week. The work as accomplished by Tasks is as follows:	25 ×1
25X1	Task 8 - wants the optical bridge right away. has requested that the optical bridge be in their	25X1
25X1	plant by the 19th week but it now looks as if provides this bridge to by the 30th week it will	25X1
	be early enough. The optical bridge is now being cast and machined. The schedule has allowed 62 weeks	
25X1	for the skin to be completed for the bridge and instrument but in fact only 32 weeks will be needed.	
	Task 43 - Computer Programming - have met and done some negotiating on this item. is repricing and revising their proposal to reflect that they will do some work in the first 5 months then lay	25X1 25X1
25X1	off and work on the instrument when it is fully assembled. had hoped to do all their work at the end of the program. Under the new plan, will do some debugging during the first 5 months by simulating and	25X1
25X1	testing on the computer. The 516 computer will be delivered toin August 1968.	
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25X1	SUBJECT: Mo	nitor Trip	
	Task 32	- Computer Console - This is a minor item and is just about completed.	
25X1 25X1 25X1 25X1 25X1	Task 24 & 25	- Image Analysis - This item is presently being negotiated with	25X1 25X1 25X1
		philosophy and agreed with testing on the assembled instrument. The people said they would have to go back and work up new costs sheets to reflect this test plan. The original bid by the light level requirement levied by raised this to the bid carried out by reworking the cost sheets will probably increase the price again. This delay will not hamper the program schedule because the Image Analysis System is not required until the later part of the program.	25X1 25X1 25X1
	Tasks 26, 27,28	- Cabinets and Racks - These items have been ordered and will be used for storage of chassis until they are required in assembly.	
	Task 11	- Stage Drives - This item is essentially complete.	
	<u>Task 10</u>	- Air Bearings - Made and in storage.	
	Tasks 16, 17, 18	- Optics - This is scheduled for 15 months delivery. Contract has been signed and returned by The 3-week strike has not seriously hurt the plan. At the 57th week the optical system is be complete and tested	25X1
25X1		in the vendors plant.	25 <u>X</u> 1 25 <u>X</u> 1 25X1
	Task 21	- Optical Bridge - Underway and should be ahead of schedule. See Task 8 for additional information.	
25X1	Task 7	- Main Frame - In fabrication and due to be delivered at in mid July 1968.	

25X1

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25X1	Task 35 - Isolation System - Contract let to Due to be delivered the end of July 1968. There will not be much change in this item due to the proposed slab in because the main interest is in 1 to 2 cycle vibrations.	25X1
	Task 9 - Granite Base and Ways - Has been ordered and is due in the 18th week (August).	
	Task 6 - Facilities - Cleanroom is under construction. The Air Conditioning will be ordered in July. The room must be finished by December 1968 but expects to have it completed in September. has made use of an air conditioning consultant, to make this temporary cleanroom as close to eventual operating environment as possible.	25X1 25X1 25X1
	shop`	25X1
25X1	Task 13 - Platen Assembly - Ints has been related to get less than 10 or for fabrication. They are trying to get less than 10 or 15 parts per 1,000,000 deviation from flatness. The platen Assembly - Ints has been related to get less than 10 or 15 parts per 1,000,000 deviation from flatness. The platen Assembly - Ints has been related to get less than 10 or 15 parts per 1,000,000 deviation from flatness. The platen Assembly - Ints has been related to get less than 10 or 15 parts per 1,000,000 deviation from flatness. The platen Assembly - Ints has been related to get less than 10 or 15 parts per 1,000,000 deviation from flatness. The platen Assembly - Ints has been related to get less than 10 or 15 parts per 1,000,000 deviation from flatness. The platen Assembly - Ints has been related to get less than 10 or 15 parts per 1,000,000 deviation from flatness. The platen Assembly - Ints has been related to get less than 10 or 15 parts per 1,000,000 deviation from flatness.	25X1
	be about 1 1/4 inches thickness. [] as asked [] to reconsider and not worry about the original tight to reconsider [] is also exploring the possib-	2 5 X 1
25X1	ility of having a firm fabricate this item.	25/1
	Task 18 - Film Drives - This is complete.	
	Task 20 - Platen Illumination - Due to be delivered in a week. No major problem in this general illumination.	
	Task 34 - Utilities Cabinets - Have all been or dered but there will be a lot of plumbing work to do on these at	25X1
25X1 25X1	Task 23 - Optics Drives - has ordered the servo motors. has supplied the standard boards but there are some 60 chassis out to be fabricated. Some 10 to 15% are held up waiting for the final optical drawings from	25X1
25X1	Task 37 - RFI Suppression - To be done as they go along. They are mainly worried about cross talk.	
	Task 14 - Film Cooling - Analytical test have been run at Thermositors but this is mainly job.	25X1 25X1

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	5. The program is scheduled to be 17% complete at the 11th week and in fact, is 16.2% complete.	
25X1 25X1	6. The 25th of June was devoted to the environmental requirements for the comparator and the site preparation problems. The following personnel joined at this meeting:	
25X1	stated that he has requested bids for vibration readings at the newly selected site for the instrument. He said he will check the costs to see if the cost will justify another 5% assurance in knowing the vibrations.	
	Film Cooling - There will be two complete systems of cooling for each side of the comparator. One for the 40mm objective lens and one for the 80mm lens. This is due to close clearance (3mm) for the high power objective which will require a fishtail orifice while a regular circular orifice will be used on the low power objective. Some problem areas still remain to be solved.	
25X1 25X1	will be able to provide just about all the requirements of this instrument. specifications 11 "Installation Requirements" and 13 "Environmental Requirements" were reviewed and no serious problems	
25X1	seem to exist in these areas. About the only major problem seems to be in properly cooling the components in the optical bridge. originally asked for 2500 CFM of air for each side of the optical bridge to hold the temperature to less than 1/4°F rise. now plans to run an enclosed air	25X1
20/(1	system through the bridge around the hot spots. This will lower the requirement to 500 CFM for each side and allow a 2 1/2°F temperature rise.	
		25X1
	TSSG/DED/R&DB II	.

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